

Original document

Melt-blown nonwoven fabric, process for producing same and the uses thereof

Publication number: JP11506175T

Publication date: 1999-06-02

Inventor:

Applicant:

Classification:

- international: **A24D3/10; B01D39/16; D01F2/30; D04H1/56;
D04H3/00; D04H3/16; A24D3/00; B01D39/16;
D01F2/24; D04H1/56; D04H3/00; D04H3/16; (IPC1-7):
D04H3/16; A24D3/10; B01D39/16; D01F2/30; D04H3/00**

- european:

Application number: JP19960531379T 19961218

Priority number(s): DE19961009143 19960308; WO1996EP05686 19961218

Also published as:

WO9733026 (A1)
 EP0885321 (A1)
 US6207601 (B1)
 EP0885321 (A0)
 EP0885321 (B1)
 DE199609143 (C1)

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Abstract not available for JP11506175T

Abstract of corresponding document: **US6207601**

The disclosure relates to a melt-blown non-woven fabric based on cellulose esters, with fibers of mean diameter less than about 10 microns. The fabric contains 0-10 wt. % extractable softener, has a reflection factor determined according to DIN 53 145 Part I (1992) of more than 60% and the cellulose ester has a degree of substitution DS of about 1.5-3.0. The softener is preferably water-extractable. A melt-blown non-woven fabric is produced with the cellulose ester as follows: a cellulose ester, cellulose acetate, with a DS of about 1.5-3.0, in particular 1.7-2.7, is mixed with softener in a weight ratio of about 2:1 to 1:4 and simultaneously heated and melted. The mixture of softener and cellulose ester has melting index MFI (210/2.16) according to DIN 53 735 of about 400 to 5 g/10 min., in particular 300 to 50 g/10 min. The melt is worked in a melt-blown spinning device into a melt-blown non-woven fabric and the softener is then extracted with a softener solvent to leave a proportion of 0-10 wt. %. The melt-blown non-woven fabric is especially suitable as a filter material.

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